

JOINT DECLARATION FOR PATENT APPLICATION

As the below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names;

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled MAMMALIAN SERINE RACEMASE, the specification of which

is attached hereto.
 was filed on July 19, 2001 as Application Serial Number 09/889,609 and was amended on July 19, 2001 (if applicable).
 was filed under the Patent Cooperation Treaty (PCT) and accorded International Application No. PCT/US00/00938, filed January 19, 2000, and amended on _____ (if any).

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

We hereby acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56(a).

Prior Foreign Application(s)

We hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Country	Application No.	Date of Filing (day month year)	Date of Issue (day month year)	Priority Claimed Under 35 U.S.C. §119

Prior United States Provisional Application(s)

We hereby claim priority benefits under Title 35, United States Code, §119(e)(1) of any U.S. provisional application listed below:

U.S. Provisional Application No.	Date of Filing (day month year)	Priority Claimed Under 35 U.S.C. §119(e)(1)
60/145,953	28 July 1999	Yes
60/144,839	21 July 1999	Yes
60/116,333	19 January 1999	Yes

Prior United States Application(s)

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Date of Filing (Day, Month, Year)	Status -- Patented Pending, Abandoned

Power of Attorney

And we hereby appoint, both jointly and severally, as our attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith the following attorneys and agents, their registration numbers being listed after their names:

ALTHERR, Robert F.	31,810	HONG, Patricia E.	34,373	NELSON, Jon O.	24,566
BANNER, Donald W.	17,037	HOSCHEIT, Dale H.	19,090	NIEGOWSKI, James A.	28,331
BANNER, Mark T.	29,888	HYMEL, Lin J.	45,414	PATEL, Binal J.	42,065
BANNER, Pamela L.	33,644	IWANICKI, John P.	34,628	PATHAK, Ajay S.	38,266
BECKER, Matthew P.	45,824	JACKSON, Thomas H.	29,808	PETERSON, Thomas L.	30,969
BECKETT, William W.	18,262	KAGAN, Sarah A.	32,141	POTENZA, Joseph M.	28,175
BERGHAMMER, Joseph J.	46,057	KATZ, Robert S.	36,402	PRATT, Thomas K.	37,210
BODNER, Jordan	42,338	KLEIN, William J.	43,719	RENK, Christopher J.	33,761
BUROW, Scott A.	42,373	KRAUSE, Joseph P.	32,578	RESIS, Robert H.	32,168
CALLAHAN, James V.	20,095	LINEK, Ernest V.	29,822	RIVARD, Paul M.	43,446
CHANG, Steve S.	42,402	MALONE, Dale A.	32,155	ROBINSON, Douglas W.	32,751
COHAN, Gregory J.	40,959	MANNAVVA, Ashok K.	45,301	SCHAD, Steven P.	32,550
COOPERMANN, Marc S.	34,143	MAPLE, Marie-Claire B.	37,588	SHIFLEY, Charles W.	28,042
CURTIN, Joseph P.	34,571	MAY, Steven A.	44,912	SHULL, Jason	47,085
DAVID, Michael	44,642	MCDERMOTT, Peter D.	29,411	SKERPON, Joseph M.	29,864
DeMOOR, Laura J.	39,654	MCKEE, Christopher L.	32,384	STOCKLEY, D. J.	34,257
EVANS, Thomas L.	35,805	MCKIE, Edward F.	17,335	VAN ES, J. Pieter	37,746
FEDOROCHKO, Gary D.	35,509	MEDLOCK, Nina L.	29,673	WITCOFF, Sheldon W.	17,399
FERGUSON, Catherine A.	40,877	MEECE, Timothy C.	38,553	WOLFFE, Franklin D.	19,724
FICKLER, Debra A.	46,699	MEEKER, Frederic M.	35,282	WOLFFE, Susan A.	33,568
FISHER, William J.	32,133	MILLER, Charles L.	43,805	WRIGHT, Bradley C.	38,061
GLEMBOCKI, Christopher R.	38,800	MITRIUS, Janice V.	43,808		
HANLON, Brian E.	40,449	MORENO, Christopher P.	38,566		
HEMENDINGER, Lisa M.	42,653	MOTTLEY, Darrell G.	42,912		

All correspondence and telephone communications should be addressed to:

Banner & Witcoff, Ltd.
Customer Number: 22907

22907

PATENT TRADEMARK OFFICE

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature Solomon S. Snyder Date 10/4/01
Full Name of First Inventor Solomon S. Snyder H.
Family Name SNYDER First Given Name Solomon
Second Given Name S.

Residence Baltimore, Maryland Citizenship United States of America

Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature Herman W. Wołosker Date 10/4/01
Full Name of Second Inventor Herman W. Wołosker H.
Family Name WOŁOSKER First Given Name Herman
Second Given Name W.

Residence Baltimore, Maryland Citizenship United States of America

Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
Full Name of Third Inventor SHETH Family Name Kevin
First Given Name _____ Second Given Name _____
Residence Baltimore, Maryland Citizenship United States of America
Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
Full Name of Third Inventor MASAAKI Family Name Takahashi
First Given Name _____ Second Given Name _____
Residence Baltimore, Maryland Citizenship United States of America
Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
Full Name of Third Inventor MOTHET Family Name Jean-Pierre
First Given Name _____ Second Given Name _____
Residence Baltimore, Maryland Citizenship United States of America
Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
Full Name of Third Inventor BRADY, Jr. Family Name Roscoe
First Given Name _____ Second Given Name O.
Residence Baltimore, Maryland Citizenship United States of America
Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
Full Name of Third Inventor FERRIS Family Name Christopher
First Given Name _____ Second Given Name D.
Residence Baltimore, Maryland Citizenship United States of America
Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

JOINT DECLARATION FOR PATENT APPLICATION

As the below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names;

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled MAMMALIAN SERINE RACEMASE, the specification of which

is attached hereto.
 was filed on July 19, 2001 as Application Serial Number 09/889,609 and was amended on July 19, 2001 (if applicable).
 was filed under the Patent Cooperation Treaty (PCT) and accorded International Application No. PCT/US00/00938, filed January 19, 2000, and amended on _____ (if any).

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

We hereby acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56(a).

Prior Foreign Application(s)

We hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Country	Application No.	Date of Filing (day month year)	Date of Issue (day month year)	Priority Claimed Under 35 U.S.C. §119

Prior United States Provisional Application(s)

We hereby claim priority benefits under Title 35, United States Code, §119(e)(1) of any U.S. provisional application listed below:

U.S. Provisional Application No.	Date of Filing (day month year)	Priority Claimed Under 35 U.S.C. §119(e)(1)
60/145,953	28 July 1999	Yes
60/144,839	21 July 1999	Yes
60/116,333	19 January 1999	Yes

Prior United States Application(s)

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Date of Filing (Day, Month, Year)	Status -- Patented, Pending, Abandoned

Power of Attorney

And we hereby appoint, both jointly and severally, as our attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith the following attorneys and agents, their registration numbers being listed after their names:

ALTHERR, Robert F.	31,810	HONG, Patricia E.	34,373	NELSON, Jon O.	24,566
BANNER, Donald W.	17,037	HOSCHEIT, Dale H.	19,090	NIEGOWSKI, James A.	28,331
BANNER, Mark T.	29,888	HYMEL, Lin J.	45,414	PATEL, Binal J.	42,065
BANNER, Pamela L.	33,644	IWANICKI, John P.	34,628	PATHAK, Ajay S.	38,266
BECKER, Matthew P.	45,824	JACKSON, Thomas H.	29,808	PETERSON, Thomas L.	30,969
BECKETT, William W.	18,262	KAGAN, Sarah A.	32,141	POTENZA, Joseph M.	28,175
BERGHAMMER, Joseph J.	46,057	KATZ, Robert S.	36,402	PRATT, Thomas K.	37,210
BODNER, Jordan	42,338	KLEIN, William J.	43,719	RENK, Christopher J.	33,761
BUROW, Scott A.	42,373	KRAUSE, Joseph P.	32,578	RESIS, Robert H.	32,168
CALLAHAN, James V.	20,095	LINEK, Ernest V.	29,822	RIVARD, Paul M.	43,446
CHANG, Steve S	42,402	MALONE, Dale A.	32,155	ROBINSON, Douglas W.	32,751
COHAN, Gregory J.	40,959	MANNAVA, Ashok K.	45,301	SCHAD, Steven P.	32,550
COOPERMANN, Marc S.	34,143	MAPLE, Marie-Claire B.	37,588	SHIFLEY, Charles W.	28,042
CURTIN, Joseph P.	34,571	MAY, Steven A.	44,912	SHULL, Jason	47,085
DAVID, Michael	44,642	MCDERMOTT, Peter D.	29,411	SKERPON, Joseph M.	29,864
DeMOOR, Laura J.	39,654	MCKEE, Christopher L.	32,384	STOCKLEY, D. J.	34,257
EVANS, Thomas L.	35,805	MCKIE, Edward F.	17,335	VAN ES, J. Pieter	37,746
FEDOROCHKO, Gary D.	35,509	MEDLOCK, Nina L.	29,673	WITCOFF, Sheldon W.	17,399
FERGUSON, Catherine A.	40,877	MEECE, Timothy C.	38,553	WOLFFE, Franklin D.	19,724
FICKLER, Debra A.	46,699	MEEKER, Frederic M.	35,282	WOLFFE, Susan A.	33,568
FISHER, William J.	32,133	MILLER, Charles L.	43,805	WRIGHT, Bradley C.	38,061
GLEMBOCKI, Christopher R.	38,800	MITRIUS, Janice V.	43,808		
HANLON, Brian E.	40,449	MORENO, Christopher P.	38,566		
HEMMENDINGER, Lisa M.	42,653	MOTTLEY, Darrell G.	42,912		

All correspondence and telephone communications should be addressed to:

Banner & Witcoff, Ltd.
Customer Number: 22907

22907

PATENT TRADEMARK OFFICE

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature _____ Date _____
Full Name of First Inventor SNYDER Solomon H.
Family Name _____ First Given Name _____ Second Given Name _____

Residence Baltimore, Maryland Citizenship United States of America

Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
Full Name of Second Inventor WOLOSKER Herman _____
Family Name _____ First Given Name _____ Second Given Name _____
Residence Baltimore, Maryland Citizenship United States of America
Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

300
Signature Ki M. Lee Date 10/22/01
Full Name of Third Inventor SHEETH Kevin
Family Name First Given Name Second Given Name
Residence Baltimore, Maryland Citizenship United States of America
Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature Date MP
Full Name of Third Inventor MASAAKI Takahashi
Family Name First Given Name Second Given Name
Residence Baltimore, Maryland Citizenship United States of America
Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature Date
Full Name of Third Inventor MOTHEY Jean-Pierre
Family Name First Given Name Second Given Name
Residence Baltimore, Maryland Citizenship United States of America
Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature Date
Full Name of Third Inventor BRADY, Jr. Roscoe O.
Family Name First Given Name Second Given Name
Residence Baltimore, Maryland Citizenship United States of America
Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature Date
Full Name of Third Inventor FERRIS Christopher D.
Family Name First Given Name Second Given Name
Residence Baltimore, Maryland Citizenship United States of America
Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

JOINT DECLARATION FOR PATENT APPLICATION

As the below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names;

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled MAMMALIAN SERINE RACEMASE, the specification of which

is attached hereto.
 was filed on July 19, 2001 as Application Serial Number 09/889,609 and was amended on July 19, 2001 (if applicable).
 was filed under the Patent Cooperation Treaty (PCT) and accorded International Application No. PCT/US00/00938, filed January 19, 2000, and amended on _____ (if any).

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

We hereby acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56(a).

Prior Foreign Application(s)

We hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Country	Application No.	Date of Filing (day, month, year)	Date of Issue (day, month, year)	Priority Claimed Under 35 U.S.C. §119

Prior United States Provisional Application(s)

We hereby claim priority benefits under Title 35, United States Code, §119(e)(1) of any U.S. provisional application listed below:

U.S. Provisional Application No.	Date of Filing (day, month, year)	Priority Claimed Under 35 U.S.C. §119(e)(1)
60/145,953	28 July 1999	Yes
60/144,839	21 July 1999	Yes
60/116,333	19 January 1999	Yes

Prior United States Application(s)

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Date of Filing (Day Month Year)	Status X Patented Pending Abandoned

Power of Attorney

And we hereby appoint, both jointly and severally, as our attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith the following attorneys and agents, their registration numbers being listed after their names:

ALTHIERR, Robert F.	31,810	HONG, Patricia E.	34,373	NELSON, Jon O.	24,566
BANNER, Donald W.	17,037	HOSCHEIT, Dale H.	19,090	NIEGOWSKI, James A.	28,331
BANNER, Mark T.	29,888	HYMEL, Lin J.	45,414	PATEL, Binal J.	42,065
BANNER, Pamela I.	33,644	IWANICKI, John P.	34,628	PATHAK, Ajay S.	38,266
BECKER, Matthew P.	45,824	JACKSON, Thomas H.	29,808	PETERSON, Thomas L.	30,969
BECKETT, William W.	18,262	KAGAN, Sarah A.	32,141	POTENZA, Joseph M.	28,175
BERGHAMMER, Joseph J.	46,057	KATZ, Robert S.	36,402	PRATT, Thomas K.	37,210
BODNER, Jordan	42,338	KLEIN, William J.	43,719	RENK, Christopher J.	33,761
BUROW, Scott A.	42,373	KRAUSE, Joseph P.	32,578	RESIS, Robert H.	32,168
CALLAHAN, James V.	20,095	LINEK, Ernest V.	29,822	RIVARD, Paul M.	43,446
CHANG, Steve S	42,402	MALONE, Dale A.	32,155	ROBINSON, Douglas W.	32,751
COHAN, Gregory J.	40,959	MANNAVA, Ashok K.	45,301	SCHAD, Steven P.	32,550
COOPERMAN, Marc S.	34,143	MAPLE, Marie-Claire B.	37,588	SHIFLEY, Charles W.	28,042
CURTIN, Joseph P.	34,571	MAY, Steven A.	44,912	SHULL, Jason	47,085
DAVID, Michael	44,642	McDERMOTT, Peter D.	29,411	SKERPON, Joseph M.	29,864
DeMOOR, Laura J.	39,654	McKEE, Christopher L.	32,384	STOCKLEY, D. J.	34,257
EVANS, Thomas L.	35,805	McKIE, Edward F.	17,335	VAN ES, J. Pieter	37,746
FEDOROCHKO, Gary D.	35,509	MEDLOCK, Nina L.	29,673	WITCOFF, Sheldon W.	17,399
FERGUSON, Catherine A.	40,877	MEECE, Timothy C.	38,553	WOLFFE, Franklin D.	19,724
FICKLER, Debra A.	46,699	MEEKER, Frederic M.	35,282	WOLFFE, Susan A.	33,568
FISHER, William J.	32,133	MILLER, Charles L.	43,805	WRIGHT, Bradley C.	38,061
GLEMBOCKI, Christopher R.	38,800	MITRIUS, Janice V.	43,808		
HANLON, Brian E.	40,449	MORENO, Christopher P.	38,566		
HEMENDINGER, Lisa M.	42,653	MOTTLEY, Darrell G.	42,912		

All correspondence and telephone communications should be addressed to:

Banner & Witcoff, Ltd.
Customer Number: 22907

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature _____		Date _____
Full Name of First Inventor _____	SNYDER	Solomon H.
	Family Name	First Given Name Second Given Name
Residence _____	Baltimore, Maryland	Citizenship _____ United States of America
Post Office Address _____	c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202	

Signature _____		Date _____
Full Name of Second Inventor _____	WOLOSKER	Herman
	Family Name	First Given Name Second Given Name
Residence _____	Baltimore, Maryland	Citizenship _____ United States of America
Post Office Address _____	c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202	

Signature _____ Date _____
 Full Name of Third Inventor SHEETH Kevin
 Family Name _____ First Given Name _____ Second Given Name _____
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

4-00 M. Shin Signature _____ Date _____
 Full Name of Third Inventor MASAAKI Takahashi _____
 Family Name _____ First Given Name _____ Second Given Name _____
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

MP Signature _____ Date _____
 Full Name of Third Inventor MOTHET Jean-Pierre _____
 Family Name _____ First Given Name _____ Second Given Name _____
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
 Full Name of Third Inventor BRADY, Jr. Roscoe O. _____
 Family Name _____ First Given Name _____ Second Given Name _____
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
 Full Name of Third Inventor FERRIS Christopher D. _____
 Family Name _____ First Given Name _____ Second Given Name _____
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

JOINT DECLARATION FOR PATENT APPLICATION

As the below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names;

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled MAMMALIAN SERINE RACEMASE, the specification of which

is attached hereto.

was filed on July 19, 2001 as Application Serial Number 09/889,609 and was amended on July 19, 2001 (if applicable).

was filed under the Patent Cooperation Treaty (PCT) and accorded International Application No. PCT/US00/00938, filed January 19, 2000, and amended on _____ (if any).

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

We hereby acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56(a).

Prior Foreign Application(s)

We hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Country	Application No.	Date of Filing (day month year)	Date of Issue (day month year)	Priority Claimed Under 35 U.S.C. §119

Prior United States Provisional Application(s)

We hereby claim priority benefits under Title 35, United States Code, §119(e)(1) of any U.S. provisional application listed below:

U.S. Provisional Application No.	Date of Filing (day month year)	Priority Claimed Under 35 U.S.C. §119(e)(1)
60/145,953	28 July 1999	Yes
60/144,839	21 July 1999	Yes
60/116,333	19 January 1999	Yes

Prior United States Application(s)

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Date of Filing (Day, Month, Year)	Status — Patented, Pending, Abandoned

Power of Attorney

And we hereby appoint, both jointly and severally, as our attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith the following at attorneys and agents, their registration numbers being listed after their names:

ALTHERR, Robert F.	31,810	HONG, Patricia E.	34,373	NELSON, Jon O.	24,566
BANNER, Donald W.	17,037	HOSCHEIT, Dale H.	19,090	NIEGOWSKI, James A.	28,331
BANNER, Mark T.	29,888	HYMEL, Lin J.	45,414	PATEL, Binal J.	42,065
BANNER, Pamela L.	33,644	IWANICKI, John P.	34,628	PATHAK, Ajay S.	38,266
BECKER, Matthew P.	45,824	JACKSON, Thomas H.	29,808	PETERSON, Thomas L.	30,969
BECKETT, William W.	18,262	KAGAN, Sarah A.	32,141	POTENZA, Joseph M.	28,175
BERGHAMMER, Joseph J.	46,057	KATZ, Robert S.	36,402	PRATT, Thomas K.	37,210
BODNER, Jordan	42,338	KLEIN, William J.	43,719	RENK, Christopher J.	33,761
BUROW, Scott A.	42,373	KRAUSE, Joseph P.	32,578	RESIS, Robert H.	32,168
CALLAHAN, James V.	20,095	LINEK, Ernest V.	29,822	RIVARD, Paul M.	43,446
CHANG, Steve S.	42,402	MALONE, Dale A.	32,155	ROBINSON, Douglas W.	32,751
COHAN, Gregory J.	40,959	MANNAVA, Ashok K.	45,301	SCHAD, Steven P.	32,550
COOPERNAN, Marc S.	34,143	MAPLE, Marie-Claire B.	37,588	SHIFLEY, Charles W.	28,042
CURTIN, Joseph P.	34,571	MAY, Steven A.	44,912	SHULL, Jason	47,085
DAVID, Michael	44,642	McDERMOTT, Peter D.	29,411	SKERPON, Joseph M.	29,864
DeMOOR, Laura J.	39,654	MCKEE, Christopher L.	32,384	STOCKLEY, D. J.	34,257
EVANS, Thomas L.	35,805	MCKIE, Edward F.	17,335	VAN ES, J. Pieter	37,746
FEDOROCHKO, Gary D.	35,509	MEDLOCK, Nina L.	29,673	WITCOFF, Sheldon W.	17,399
FERGUSON, Catherine A.	40,877	MEECE, Timothy C.	38,553	WOLFFE, Franklin D.	19,724
FICKLER, Debra A.	46,699	MEEKER, Frederic M.	35,282	WOLFFE, Susan A.	33,568
FISHER, William J.	32,133	MILLER, Charles L.	43,805	WRIGHT, Bradley C.	38,061
GLEMBOCKI, Christopher R.	38,800	MITRIUS, Janice V.	43,808		
HANLON, Brian E.	40,449	MORENO, Christopher P.	38,566		
HEMENDINGER, Lisa M.	42,653	MOTTLEY, Darrell G.	42,912		

All correspondence and telephone communications should be addressed to:

Banner & Witcoff, Ltd.
Customer Number: 22907


22907

PATENT TRADEMARK OFFICE

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature _____ Date _____
Full Name of First Inventor SNYDER Solomon H.
Family Name First Given Name Second Given Name

Residence Baltimore, Maryland Citizenship United States of America

Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
Full Name of Second Inventor WOLOSKER Herman
Family Name First Given Name Second Given Name
Residence Baltimore, Maryland Citizenship United States of America
Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
 Full Name of Third Inventor SHETH Kevin
 Family Name First Given Name Second Given Name
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
 Full Name of Third Inventor MASAAKI Takahashi
 Family Name First Given Name Second Given Name
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

5-500
 Signature _____ Date December 05, 2001
 Full Name of Third Inventor MOTHIET Jean-Pierre
 Family Name First Given Name Second Given Name
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
 Full Name of Third Inventor BRADY, Jr. Roscoe O.
 Family Name First Given Name Second Given Name
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
 Full Name of Third Inventor FERRIS Christopher D.
 Family Name First Given Name Second Given Name
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

JOINT DECLARATION FOR PATENT APPLICATION

As the below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names;

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled MAMMALIAN SERINE RACEMASE, the specification of which

is attached hereto.
 was filed on July 19, 2001 as Application Serial Number 09/889,609 and was amended on July 19, 2001 (if applicable).
 was filed under the Patent Cooperation Treaty (PCT) and accorded International Application No. PCT/US00/00938, filed January 19, 2000, and amended on (if any).

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

We hereby acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56(a).

Prior Foreign Application(s)

We hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Country	Application No.	Date of Filing (day month year)	Date of Issue (day month year)	Priority Claimed Under 35 U.S.C. §119

Prior United States Provisional Application(s)

We hereby claim priority benefits under Title 35, United States Code, §119(e)(1) of any U.S. provisional application listed below:

U.S. Provisional Application No.	Date of Filing (day month year)	Priority Claimed Under 35 U.S.C. §119(e)(1)
60/145,953	28 July 1999	Yes
60/144,839	21 July 1999	Yes
60/116,333	19 January 1999	Yes

Prior United States Application(s)

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Date of Filing (Day, Month, Year)	Status -- Patented, Pending, Abandoned

Banner & Witcoff Ref. No. 01107.00171
 Client Ref. No. DM-3496

Power of Attorney

And we hereby appoint, both jointly and severally, as our attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith the following attorneys and agents, their registration numbers being listed after their names:

ALTHERR, Robert F.	31,810	HONG, Patricia E.	34,373	NELSON, Jon O.	24,566
BANNER, Donald W.	17,037	HOSCHEIT, Dale H.	19,090	NIEGOWSKI, James A.	28,331
BANNER, Mark T.	29,888	HYMEL, Lin J.	45,414	PATEL, Binal J.	42,065
BANNER, Pamela L.	33,644	IWANICKI, John P.	34,628	PATHAK, Ajay S.	38,266
BECKER, Matthew P.	45,824	JACKSON, Thomas H.	29,808	PETERSON, Thomas L.	30,969
BECKETT, William W.	18,262	KAGAN, Sarah A.	32,141	POTENZA, Joseph M.	28,175
BERGHAMMER, Joseph J.	46,057	KATZ, Robert S.	36,402	PRATT, Thomas K.	37,210
BODNER, Jordan	42,338	KLEIN, William J.	43,719	RENK, Christopher J.	33,761
BUROW, Scott A.	42,373	KRAUSE, Joseph P.	32,578	RESIS, Robert H.	32,168
CALLAHAN, James V.	20,095	LINEK, Ernest V.	29,822	RIVARD, Paul M.	43,446
CHANG, Steve S.	42,402	MALONE, Dale A.	32,155	ROBINSON, Douglas W.	32,751
COHAN, Gregory J.	40,959	MANNAVIA, Ashok K.	45,301	SCHAD, Steven P.	32,550
COOPERMANN, Marc S.	34,143	MAPLE, Marie-Claire B.	37,588	SHIFLEY, Charles W.	28,042
CURTIN, Joseph P.	34,571	MAY, Steven A.	44,912	SHULL, Jason	47,085
DAVID, Michael	44,642	McDERMOTT, Peter D.	29,411	SKERPON, Joseph M.	29,864
DeMOOR, Laura J.	39,654	MCKEE, Christopher L.	32,384	STOCKLEY, D. J.	34,257
EVANS, Thomas L.	35,805	MCKIE, Edward F.	17,335	VAN ES, J. Pieter	37,746
FEDOROCHKO, Gary D.	35,509	MEDLOCK, Nina L.	29,673	WITCOFF, Sheldon W.	17,399
FERGUSON, Catherine A.	40,877	MEECE, Timothy C.	38,553	WOLFFE, Franklin D.	19,724
FICKLER, Debra A.	46,699	MEEKER, Frederic M.	35,282	WOLFFE, Susan A.	33,568
FISHER, William J.	32,133	MILLER, Charles L.	43,805	WRIGHT, Bradley C.	38,061
GLEMBOCKI, Christopher R.	38,800	MITRIUS, Janice V.	43,808		
HANLON, Brian E.	40,449	MORENO, Christopher P.	38,566		
HEMENDINGER, Lisa M.	42,653	MOTTLEY, Darrell G.	42,912		

All correspondence and telephone communications should be addressed to:

Banner & Witcoff, Ltd.
 Customer Number: 22907



22907

PATENT TRADEMARK OFFICE

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature Solomon Snyder Date 10/4/01
 Full Name of First Inventor SNYDER Family Name Solomon First Given Name H. Second Given Name

Residence Baltimore, Maryland Citizenship United States of America

Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

MD

Signature Date
 Full Name of Second Inventor WOLOSKER Family Name First Given Name Second Given Name

Residence Baltimore, Maryland Citizenship United States of America

Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
 Full Name of Third Inventor SHETH Kevin
 Family Name First Given Name Second Given Name
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
 Full Name of Third Inventor MASAAKI Takahashi
 Family Name First Given Name Second Given Name
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
 Full Name of Third Inventor MOTHET Jean-Pierre
 Family Name First Given Name Second Given Name
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature Roscoe O. Brady Date 11/5/01
 Full Name of Third Inventor BRADY, Jr. Roscoe O.
 Family Name First Given Name Second Given Name
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
 Full Name of Third Inventor FERRIS Christopher D.
 Family Name First Given Name Second Given Name
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Banner & Witcoff Ref. No.
Client Ref. No.07.00171
DM-3496**JOINT DECLARATION FOR PATENT APPLICATION**

As the below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names;

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled MAMMALIAN SERINE RACEMASE, the specification of which

is attached hereto.

was filed on July 19, 2001 as Application Serial Number 09/889,609 and was amended on July 19, 2001 (if applicable).

was filed under the Patent Cooperation Treaty (PCT) and accorded International Application No. PCT/US00/00938, filed January 19, 2000, and amended on _____ (if any).

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

We hereby acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56(a).

Prior Foreign Application(s)

We hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Country	Application No.	Date of Filing (day month year)	Date of Issue (day month year)	Priority Claimed Under 35 U.S.C. §119

Prior United States Provisional Application(s)

We hereby claim priority benefits under Title 35, United States Code, §119(e)(1) of any U.S. provisional application listed below:

U.S. Provisional Application No.	Date of Filing (day month year)	Priority Claimed Under 35 U.S.C. §119(e)(1)
60/145,953	28 July 1999	Yes
60/144,839	21 July 1999	Yes
60/116,333	19 January 1999	Yes

Prior United States Application(s)

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Date of Filing (Day, Month, Year)	Status -- Patented Pending, Abandoned

Banner & Witcoff Ref. No.
Client Ref. No.

01107.00171
DM-3496

Power of Attorney

And we hereby appoint, both jointly and severally, as our attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith the following attorneys and agents, their registration numbers being listed after their names:

ALTHERR, Robert F.	31,810	HONG, Patricia E.	34,373	NELSON, Jon O.	24,566
BANNER, Donald W.	17,037	HOSCHEIT, Dale H.	19,090	NIEGOWSKI, James A.	28,331
BANNER, Mark T.	29,888	HYMEL, Lin J.	45,414	PATEL, Binal J.	42,065
BANNER, Pamela L.	33,644	IWANICKI, John P.	34,628	PATHAK, Ajay S.	38,266
BECKER, Matthew P.	45,824	JACKSON, Thomas H.	29,808	PETERSON, Thomas L.	30,969
BECKETT, William W.	18,262	KAGAN, Sarah A.	32,141	POTENZA, Joseph M.	28,175
BERGHAMMER, Joseph J.	46,057	KATZ, Robert S.	36,402	PRATT, Thomas K.	37,210
BODNER, Jordan	42,338	KLEIN, William J.	43,719	RENK, Christopher J.	33,761
BUROW, Scott A.	42,373	KRAUSE, Joseph P.	32,578	RESIS, Robert H.	32,168
CALLAHAN, James V.	20,095	LINKE, Ernest V.	29,822	RIVARD, Paul M.	43,446
CHANG, Steve S	42,402	MALONE, Dale A.	32,155	ROBINSON, Douglas W.	32,751
COHAN, Gregory J.	40,959	MANNAVA, Ashok K.	45,301	SCHAD, Steven P.	32,550
COOPERMAN, Marc S.	34,143	MAPLE, Marie-Claire B.	37,588	SHIFLEY, Charles W.	28,042
CURTIN, Joseph P.	34,571	MAY, Steven A.	44,912	SHULL, Jason	47,085
DAVID, Michael	44,642	McDERMOTT, Peter D.	29,411	SKERPON, Joseph M.	29,864
DeMOOR, Laura J.	39,654	McKEE, Christopher L.	32,384	STOCKLEY, D. J.	34,257
EVANS, Thomas L.	35,805	McKIE, Edward F.	17,335	VAN ES, J. Pieter	37,746
FEDOROCHKO, Gary D.	35,509	MEDLOCK, Nina L.	29,673	WITCOFF, Sheldon W.	17,399
FERGUSON, Catherine A.	40,877	MEECE, Timothy C.	38,553	WOLFFE, Franklin D.	19,724
FICKLER, Debra A.	46,699	MEEKER, Frederic M.	35,282	WOLFFE, Susan A.	33,568
FISHER, William J.	32,133	MILLER, Charles L.	43,805	WRIGHT, Bradley C.	38,061
GLEMBOCKI, Christopher R.	38,800	MITRIUS, Janice V.	43,808		
HANLON, Brian E.	40,449	MORENO, Christopher P.	38,566		
HEMENDINGER, Lisa M.	42,653	MOTTLEY, Darrell G.	42,912		

All correspondence and telephone communications should be addressed to:

Banner & Witcoff, Ltd.
Customer Number: 22907



22907

PATENT TRADEMARK OFFICE

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature Solomon S. Snyder Date 10/4/01
 Full Name of First Inventor SNYDER Family Name Solomon First Given Name S. Second Given Name H.
 Residence Baltimore, Maryland Citizenship United States of America

Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature h. w. Date 11/12/01
 Full Name of Second Inventor WOLOSKER Family Name Herman First Given Name H. Second Given Name W.
 Residence Baltimore, Maryland Citizenship United States of America

Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

MD

Signature _____ Date _____
 Full Name of Third Inventor SHETH Kevin
 Family Name _____
 First Given Name _____ Second Given Name _____
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
 Full Name of Third Inventor MASAAKI Takahashi
 Family Name _____
 First Given Name _____ Second Given Name _____
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
 Full Name of Third Inventor MOTHET Jean-Pierre
 Family Name _____
 First Given Name _____ Second Given Name _____
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature _____ Date _____
 Full Name of Third Inventor BRADY, Jr. Roscoe O.
 Family Name _____
 First Given Name _____ Second Given Name _____
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202

Signature 7/22/01 CK Date 10/22/01
 Full Name of Third Inventor FERRIS Christopher D.
 Family Name _____
 First Given Name _____ Second Given Name _____
 Residence Baltimore, Maryland Citizenship United States of America
 Post Office Address c/o The Johns Hopkins University, 111 Market Place, Suite 906, Baltimore, MD 21202